

WIRELESS ROUTER AND METHOD FOR PROCESSING TRAFFIC IN A  
WIRELESS COMMUNICATIONS NETWORK

5     ABSTRACT OF THE DISCLOSURE

10     A wireless communications network includes a  
wireless-specific router topology layer that connects  
cellular sites to a wireline topology. The wireless-  
specific router topology provides a distributed  
15     architecture in which call processing including call  
setup, resource preservation, air bandwidth allocation,  
switching, soft handoff, and micromobility is performed  
at the cell level. The wireless routers are technology  
independent to support various cellular technologies.  
20     The wireless router may include a first interface  
operable to communicate wireless packets for a call with  
a remote device and a second interface operable to  
communicate wireline packets for the call with the  
wireline network. A traffic controller is coupled to the  
25     first and second interfaces and operable to convert  
traffic between the wireless and wireline packets and to  
route packets to a destination mobile or wireline device.  
A selection and distribution unit is operable to select  
and distribute traffic to support soft handoff for calls  
in the wireless communications network.